

Kinetics of the Dehydrogenation of Isopentenes, by  
A. P. Shcheglova, A. A. Balandin, O. K. Bogdanova,  
et al.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXIX, No 5,  
1959, pp 1071-1

CB

Sci  
Oct 60

129,976

Stereochemical Study of the Active Centers of a Catalyst, by A. A. Balandin, E. I. Klabunovskiy,  
4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXIX, No 1,  
1959, pp 102-104.

Sci  
Oct 60

CB  
OTS 61-10360

129,930

Irreversible Catalysis in the Preparation of Metal...  
Rhenium, by A. A. Balandin, N. I. Karpetschkoj,  
A. A. Tolstopyatova, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol. CXIX, No 4,  
1959, pp 795-798.

CB

Sci  
Oct 60

129,960

Preparation of Divinylbenzene by Catalytic Dehydrogenation of Diethylbenzene, by A. A. Balandin,  
N. I. Shuklin, G. M. Marukyan, I. I. Brusov, R. G.  
Seimovich, T. K. Lavrovskaya, V. K. Mikhailovskiy,

4 pp

RUSSIAN, per, Zhur Prik Khim, Vol XXXII, No 11,  
1959, pp 2566-2570

CB

132. 212

Oct 60

Configurational Relationships During Stereospecific  
Catalysis, by A. A. Balandin, E. I. Klabunovskiy,  
Yu. I. Petrov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXVII, No 3,  
pp 557-560.

CB

Sci  
Aug 60

126,392

Hydrolytic Hydrogenation of Cellulose, by A. A.  
Balandin, N. A. Vasyunina, S V. Chepigo, G. S  
Barysheva, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXVIII, No 5,  
1959, pp 941-944.

CB

Sci - Chem  
Sep 60

127,741

Comparison of Kinetic Relative Adsorption Coefficients  
With Relative Adsorption KW Coefficients  
Determined by Means of the BET Equation, by A. S.  
Sokolov, A. A. Balandin, Yu. S. Mardashev, 4 pp.

1958, par. Dok Ak Nauk SSSR, Vol CXXVII, No 2,  
229-320.

CB

SI  
MS 60

126, 382

Preparation of Butadiene by Catalytic Dehydrogenation  
of Butane-Butylene Mixtures in the Presence of  
Water Vapor, by O. K. Bogdanova, A. A. Balandin,  
A. P. Shcheglova, 8 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 7,  
1959, pp 2204-2211.

CB

Sci

Aug 60

124,683

Kinetic Determination of the Energies of the  
Bonds Formed by Hydrogen, Deuterium, Carbon,  
Oxygen, and Nitrogen atoms with Zinc Oxide, by  
A. A. Balandin, I. D. Roshdestvenskaya, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIV, No 4,  
1960, pp 872-879.

Cleaver-Hume Press

140,955

Sci  
Feb 61

Action of Enzymes and Optically Active Catalysts  
From the Standpoint of the Multiplet Theory of  
Catalysis, by A. A. Balandin, E. I. Klebunovskiy,  
3 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 11,  
1959, pp 2492-2497.

Cleaver-Hume Press

Sci

123,659

Aug 60

Selectivity of Action of Nickel Deposited on Aluminum  
Oxide Catalysts, by N. V. Borunova, A. A. Balandin,  
L. Kh. Freidlin, 4 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 5,  
1959, pp 1409-1412.

Consultants Bureau

Sci

Jul 60

1020,430

The Structure of Molecules and the Mechanism of  
Their Catalytic Hydrogenation, by A. A. Nekrasov,  
M. I. Khidetdin, 11 p.

RUSSIAN, par, Dok Ak Nauk, 1958, Vol XXXII, No 1,  
pp 83-86.

SIA 59-17437

SLA 60-10064

Sci  
Feb 60  
Vol 2, No 10

108,825

A Study of Iron-Chromium Catalysts in Dehydrogenation and Dehydration Reactions of Isopropyl Alcohol, by A. A. Balandin, et al. 9c47762

RUSSIAN, per, Zhur Fiz Khim Vol XXXII, No 4,  
1958, pp 882-893.

ATS RJ-1890

Sci - Chem

Jan 60

105, 406

Balandin, A. A., Kukina, A. I., and Malakhova,  
Ye. A.  
CATALYTIC DECOMPOSITION OF Di-n-BUTYL SUL-  
FIDE ON  $\alpha$ -Fe. [1960] 12p.  
Order from ATS \$16.60                           ATS-95N47R  
Trans. of \*Zhur[nal] Fiz[icheskoy] Khim[ii] (USSR)  
1960, v. 34, no. 9, p. 2030-2040.

61-12673

- I. Butyl sulfide--Decomposition
- II. Balandin, A. A.
- III. Kukina, A. I.
- IV. Malakhova, Ye. A.
- V. ATS-95N47R
- VI. Associated Technical Services, Inc., East Orange, N. J.

(Chemistry--Organic, TT, v. 5, no. 7)

Office of Technical Services

Balandin, A. A., Rozhdestvenskaya, I. D., and  
Slinkin, A. A.  
EFFECT OF VARIOUS GAS TREATMENTS ON THE  
CATALYTIC AND MAGNETIC PROPERTIES OF A  
CHROMIUM OXIDE CATALYST. [1961] 5p.  
Order from ATS \$7.45

ATS-38N48R

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1960,  
v. 134, no. 1, p. 110-113.

61-22001

1. Chromium oxides--  
Catalytic properties
2. Chromium oxides--  
Magnetic properties
- I. Balandin, A. A.
- II. Rozhdestvenskaya, I. D.
- III. Slinkin, A. A.
- IV. ATS-38N48R
- V. Associated Technical  
Services, Inc.,  
East Orange, N. J.

(Chemistry--Physical, TT, v. 5, no. 10)

Office of Technical Services

On The Thermal Ionization of Hydrogen and Hydrocarbons in the Presence of Metallic Catalysts, by  
P. G. Ivanov, A. A. Balandin, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXIX, No 4,  
1958, pp 727-730.

Consultants Bureau

Sci - Chem

May 59

87,050

Investigation of the Catalytic Dehydrogenation  
of Hydrocarbons and Alcohols Over Metallic  
Rhenium, by A. A. Balandin, E. I. Karpeiskaya,  
A. A. Tolstopyatova, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXII, No 2,  
1958, pp 227-230.

CB

Sci - Chem  
Oct 59

109,038

Selective Hydrogenation of the Acetylenic Bond in  
2-Butyne-1,4-Diol to an Ethylenic Bond Over Nickel  
Catalyst, by L. Kh. Freidlin, A. A. Balandin,  
I. F. Zhukova, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXIV, No 3,  
1959, pp 598-601.

Consultants Bureau

Sci

Jun 50

119,459

Bonding Energy Between the Surface of Metallic  
Catalysts and Carbon, by S.L. Kiperman, A.A.  
Balandin, 4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXVIII,  
No 9, 1959, pp 2049-2052

Cleaver-Hume Press  
Available Br 5 Library

Sci

Jun 60

117, 723

Effect of the Molecular Structure of an  
Alcohol on the Kinetics of its Rehydrogenation.  
Communication 3. Comparison of Results for  
Various Alcohols, by A. A. Balandin, O. K.  
Bogdanova, A. P. Shcheglova, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 8, 1957, pp 909-915.

Consultants Bureau

Sci - Chem

87,163

May 59

Thermographic Investigation of the Regeneration  
of Chromium Catalysts, by T. V. Rode, A. A.  
Balandin, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVIII,  
No 11, 1958, pp 2909-2914.

Consultants Bureau

Sci

Dec 59

103,141

Catalytic Properties of Cerium Dioxide in the  
Dehydrogenation and Dehydration of Alcohols  
and in the Dehydrogenation of Cyclohexane, by  
A. A. Tolstopyatova, A. A. Balandin.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXII, No 8,  
1958, pp 1831-1841.

ATS RJ-1903

Sci - Chem  
Dec 59

104,080

Catalytic Properties of Tungstate Bronzes, by  
A. A. Balandin, N. P. Sokolova, 9 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 2, 1959, pp 214-224.

Consultants Bureau

Sci - Chem

Apr 60

113, 212

Properties of a Nickel Catalyst Prepared by the  
Decomposition of a Double Magnesium Nickel Formate,  
by L. Kh. Freidlina, A.A. Balandin, K.G. Rudneva,  
6 pp.

RUSSIAN, per, Iz Ak Nauk, SSSR, Otdel Khim Nauk,  
No 4, 1957, pp 436-442.

Consultants Bureau'

Sci - Chem

May 1959

87,205

Radiosactive Catalysts. The Dehydration of Cyclohexene  
on Magnesium and Sodium Sulfates, by A. A.  
Balandin, Vikt. I. Spitsyn, N. P. Dobrosel'skaya,  
I. E. Mikhailenko, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXI, No 3,  
1958, pp 495-498.

Consultants Bureau

Sci - Phys

Sep 59

97660

The Catalytic Alkylation of  $\alpha$ -Butane by Ethylene  
at High Temperatures and Pressures, by N. M.  
Nazarova, A. A. Balandin, L. Kh. Freydin, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXI, No 5,  
1959, pp 865-868.

SIA 59-10517

Sci - Chem  
Sep 59  
Vol 2, No 2

97,985

Formation of Carbon Dioxide in the Preparation of  
Butadiene from Butane-Butene Mixtures, by A. A.  
Balandin, M. B. Neiman, O. K. Bogdanova, G. V.  
Isagulyants, A. P. Shcheglova, E. I. Popov, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 3, 1957, pp 270-273

Consultants Bureau  
SLA 50-5425  
ATS RJ-538

Sci-Chem

Mon 59

86,844

Effect of the Molecular Structure of an Alcohol on  
the Kinetics of its Dehydrogenation. Communica-  
tion 2. C<sub>4</sub>-C<sub>3</sub> Alcohols, by O. K. Bogdanova, A. A.  
Palandin, A. P. Shcheglova, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauki,  
No 7, 1957, pp 795-800.

Consultants Bureau

Sci - Chem

May 59

87,016

Kinetics of the Catalytic Reduction of Organic Peroxides and Hydroperoxides, Communication 1.  
Hydrogenation of a,a Dimethylbenzyl Hydroperoxide, a,a Dimethylbenzyl Ethyl Peroxide, and  
1,2,3,4-Tetrahydro-1-Naphthyl Hydroperoxide,  
by A.A. Balandin, I. Kh. Freidlin, N.V. Nikiforova,  
8 pp.

RUSSIAN, per, Iz Ak Nauk, SSSR, Otdel Khim Nauk,  
No 4, 1957, pg 443-450.

Consultants Bureau

Sci - Chem  
May 1959

87,207

The Energy of Bonding of a Nickel Catalyst with  
Oxygen, by S.L. Kiperman, A.A. Balandin, O.R.  
Davydova, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 9, 1957, pp 1129-1131.

Consultants Bureau

Sci - Chem

May 59

87,196

Effect of the Molecular Structure of an Alcohol  
on the Kinetics of its Dehydrogenation.  
Communication 1. C<sub>2</sub> and C<sub>3</sub> Alcohols, by  
O. K. Bogdanova, A. A. Bulandin, A. P. Shcheglova,  
8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 7, 1957, pp 787-794.

Consultants Bureau

Sci - Chem

May 99

87,015

Thermochemical Determination of Bond Energies  
Communication 1. Sn-C Bond Energies in Tetramethyl-  
and Tetrastibyltin, by A. A. Balandin, E. I. Klabunov-  
skiy, M. P. Kozina, O. D. Ul'yanova, 6 pp.

RUSSIAH, per, Iz Ak Nauk SSSR, Otdel Khim  
Nauk, No 1, 1958, pp 12-17.

Consultants Bureau

Sci - Chem

May 59

86,862

Use of Radiocarbon for Comparing the Rates of  
Dehydrogenation of Butane and Butene, by A. A.  
Balandina, O. K. Bogdanova, G. V. Isaagulyants,  
M. B. Neyman, E. I. Popov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim  
Nauk, No 1, 1958, pp 18-23

Consultants Bureau  
AT&T RJ-1257

Sci - Chem

May 59

86,864

Investigation of the Vapor-Phase Hydrolysis of  
Chlorobenzene in Presence of a Phosphate Catalyst,  
I. M. Freidlin, A.A. Balandin, G.A. Fridman, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 11, 1957, pp 1328-1332

Consultants Bureau

Sci - Chem

May 59

86,997

Effect of Fine Vibrational Milling on the Activity of  
Raney Nickel, S.L. Kiperman, A.A. Balandin, I.R. Davydova

3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 12,  
1957, pp 1482-~~1483~~ 1483

Consultants Bureau

Sci - Chem

May 59

86,986

Dehydrogenation of Butane-Butene Mixtures Investigated  
With the Aid of C<sup>14</sup>, A. A. Balandin, M. B. Neyman,  
O. K. Bogdanova, G. V. Isaagulyants, A. P. Shcheglova,  
E. L. Popov, 10 pp.

(C)

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 2, 1957, pp 157-165.

Consultants Bureau

Sci - Chem

May 59

86,927

(R)  
Vapor-Phase Hydrolysis of Halobenzenes Over a Promoted  
Phosphate Catalyst, by L. Kh. Freidlin, A. A. Balandin,  
G. A. Fridman, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 2, 1958, pp 145-151.

Consultants Bureau

Sci - Chem

May 59

86, 885

Use of Radiodiyuron for the Investigation of the  
Mechanism of the Dehydration of Ethanol Over  
Alumin., A. A. Balandin, G. V. Isagulyants, E.  
I. Popov, Yu. I. Derbentsev, S. L. Vinogradov,  
3 pp. *buy*

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 2, 1958, pp 233-235

Consultants Bureau

Sci - Chem

May 59

86, 896

Kinetics of the Catalytic Reduction of  
Peroxides and Hydroperoxides, Communication 2.  
Hydrogenation of Benzoyl Peroxide, tert-  
Butyl Peroxybenzoate, 2-cyclo-hexen-1-yl-  
Hydroperoxide, by A. A. Balandin, L. Kh.  
Freidlin, N. V. Nikiforova, 11 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 2, 1958, pp 133-144.

Consultants Bureau

Sci - Chem  
May 59

86, 886

Preparation of Isoprene by Catalytic Dehydrogenation  
of Isopantes, by A. A. Balandin, O. K. Bogdanova,  
and A. P. Scheglova, 5 pp.

RUSSIAN, par, Dok Ak Nauk SSSR, Vol CXI, No 2,  
1958, pp 297-300.

Assoc Tech Sr  
41427R

ATS RJ 1602  
GLA-57-22112

Sci - Chem  
Apr 59  
OTE V. I, No 5

85,917

The Mechanism of Heterogeneous Catalysis and  
the Kinetics of Catalytic Dehydrogenation,  
by A. A. Balandin.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXI, No 4,  
1957, pp 745-769.

Assoc Tech Serv RJ-1396  
" " 47K28R

Sci - Chem

Apr 59

200-1000-1000  
777.952  
85,285

Effect of Raney IRON on Hydrocarbons under Con-  
ditions of Prolonged Contact, by A. A. Balandin, S. I.  
Raik.

RUSSIAN, per, Zhur Prom Khim, Vol XXX, No 11, 1957,  
pp 1711-1714.

Consultants Bureau

Sci - Chem

Feb 59

82,182

Principles of Structure and Energy Correspondence in Enzymatic Catalysis, by A. A. Palandin,  
10 pp.

RUSSIAN, per, Biokhim, Vol XXIII, No 3, 1958  
pp 475-486

Consultants Bureau

Sci - Chem. Biol

Mar 59

83, 697

Selective Hydrogenation of Monosaccharides and  
Polyhydric Alcohols, by Academician A. A. Bal-  
andin, N. A. Vasyunina, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXVII, No  
1, 1957, pp 84-87.

Consultants Bureau

Sci - Chem  
Oct 58

74, 389

Principles of Hydrogenation and the Principle of Hydrogenation. Mechanism of Hydrogen and Hydrogenation, by Dr. A. Pajardin.

USSR, per, Dok Ak Nauk SSSR, Vol. XVII,  
1951, No. 49492.

Consultants Customs TR  
Sep-1970  
\$21.00

1951, Sov. Phys.

Layers in Catalysis and the Effect Thereof on  
Energy of Activation, by A. A. Balandin.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XCVII,  
1954, pp 667-670.

Consultants Customs Tr  
GCR-193B  
\$21.00

Sci - Chem, Phys

Mar 59

83,452

Preparation of p-Xylylenediamine by the Catalytic  
Reduction of Terephthalonitrile, by K. L. Friedlin,  
A. A. Balandin, T. Sladkova, 5 pp.

RUSSIAN, Dok Ak Nauk SSSR, Vol CXII, pp 880-881,  
1957.

SIA R-1650

Sci - Chem  
Aug 58

70,524

Bond Energies and Heterogeneous Catalysts, by A. A.  
Balandin, 4 pp.

Full tr

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CVII,  
No 1, p 85-88.

1956  
SAC IR-927  
Consultants Bureau

Sci - Chemistry  
Dec 56 CTS

44,532  
ASLIB-GB131

Thermodynamic Properties of Adsorption Complexes in  
Heterogeneous Catalysis, by A. A. Balandin.

RUSSIAN, no per, Dok Ak Nauk SSSR, Vol LXIII, No 1,  
1948, pp 33-36.

AEC Tr 219

CIA/PDD/X-307

DRB T.17.R CIA D 167276  
197027

15,038  
Scientific - Chemistry

July CTS

On the Values of Bond Energies of Nickel Catalysts  
with Elements of Organic Compounds, by S. L.  
Kiperman, A. A. Balandin, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXIII, No 2,  
pp 335-338.

Consultants Bureau

Sci - Chem  
Aug 58

69, 084

Effect of Separate Stages of the Polycondensation of  
Products From Catalytic Decomposition of Ethyl Alcohol  
on the Carbon Formation Rate, by G. Stegner,  
A. A. Balandin, et al., 6pp.

RUSSIAN, per, Iz Ak Nauk SSSR, IX Otdel. Nauk. Nauk,  
No 1, X~~XXXXX~~ 1960, pp 24-30.

CB

Sol  
May 62

192,853

Kinetics of 2-Vinylpyridine Hydrogenation on a  
Raney Nickel Catalyst, by A. A. Balandin, I. I.  
Brusov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 1, 1961, pp 15-20.

CB

Sci  
May 62

192,852

The Polymerization of Certain Hydrocarbons  
by Polyphosphoric Acid as a Catalyst, by A. M.  
Kazakov and G. V. Isagulyants, S. F.R.

Published, per, Iz Akad Nauk SSSR, Otdel Khim  
Nauk, No 11, 1958, pp 1303-1309.

Consultante: RUMA

Loc.

Arg: 60

112,187

Kinetic Determination of Bond Energy With  
Chromium Oxide Catalyst, by A. A. Tolstopyatova,  
A. N. Balundin, E. I. Karpeyskaya, 8 pp

URSSAK, ser, Iz Ak Nauk SSSR, Otdel Khim  
Nauk, v. 10, 1958, pp 1184-1191.

Consultants Bureau

Ref:

113, 188

Adsorption and Catalysis. Communication 1.  
Liquid-Phase Hydrogenation of Maleic and  
Fumaric Acids, by V. V. Patrikeyev, A. A.  
Balandin, M. L. Khidashel', 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 4; 1958, pp 411-418.

Consultants Bureau

Sci - Chem

Apr 60

112,282

Energy Reactions in Ring-Opening and Ring-Closing Reactions of Hydrocarbons, by G. I. Levy, A. A. Balandina, 3 pp.

MOSCOW, per, Iz Ak Nauk SSSR, Otdel Nauk  
Khim, No 12, 1958, pp 1497-1498.

Consultants Bureau

Sci

Apr 60

112, 214

Studies of the Dehydrogenation of Butene-Butylene  
Mixtures by Means of Radioactive Carbon C<sup>14</sup>, by  
G. V. Isagulyants, A. A. Balanin, O. K. Bogdanova,  
M. S. Ryzova, N. I. Popov.

RUSIAN, cov, Zhur Fiz Khim, Vol XXII, 1957, pp  
1657, 1658.

Assoc Tech Wo SV

05K202

79, 960

Sci - Chem  
Feb 59

Catalytic Conversions of 2-Methylthiophene in the  
Presence of Steam, by A. A. Balandin, L. I. Sovalova,  
T. A. Slovokhotova, 6 pp.

MEISTAM, per, Dok Ak Nauk SSSR, Vol CXX, No 4, 1958,  
pp 775-778.

Consultants Bureau

Sci - Chem

Jun 59

88,768

On the Stereochemistry of Catalytically Active  
Complexes, by A. A. Balandin, E. I. Klabunov-  
skiy, 4 pp.

1957

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXIII, No 3,  
pp 585-587.

Consultants Bureau

Sci - Chem  
Aug 58

69, 074

The Relationship Between Activity and Stability  
of Nickel-Alumina Catalysts and the Macrostructure of  
the Carrier, by L. Kh. Friedlin, A. A. Balandin,  
and others, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR. Otdel Khim Nauk,  
No 8, 1958, pp 923-928.

Assoc Tech Serv  
86X27R

Sci - Chem  
May 59  
OTB, V I, No 6

86,327

The Kinetics and Sequence of Hydrogenation of Bonds  
in Peroxide Compounds Over a Nickel Catalyst, by  
A. A. Balandin, M. V. Nikiforova, L. Kh. Freidlin,  
6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXII, No 4,  
1957, pp 649-652.

Consultants Bureau

Sci - Chemistry  
July 58

66,767

Kinetics of Catalytic Dehydrogenation of  
Isopropyl Alcohol in Presence of Transition  
Metals of the Fourth Period, by A. A. Balandin  
and P. Teteni, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXV, No 1,  
1957, pp 727-730.

Consultants Bureau

Sci - Chem

Aug 58

70,930

Present State of the Catalysis Problem and the  
Theoretical Basis of the Search for Catalysts,  
by A. A. Balandin, 14 pp.

Full translation.

RUSSIAN, bimo per, Iz Ak Nauk, Otdel Khim Nauk, No X  
Jul/Aug 1955, pp 624-638. CIA C 41476

Consultants Bureau

Scientific - Chemistry  
Mar 56 CTS/dex

32,609

CIA C 41476-0J1?

REF ID: A6571

Catalytic Hydrogenation. I. Kinetic Equation of  
Hydrogenation and Dehydrogenation Over Nickel  
Catalyst, by A. A. Balandin, 25 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XV, No 7/8,  
1945, pp 608-618.

Sci Trans Center  
RT-2588

Scientific - Chemistry  
CTB 75/Dec 55

29, 219

Kinetics of Dehydrogenation of Alcohols Over  
Precipitated Copper Catalyst, by A. A. Balandin,  
P. Teteni, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CMIII, No 5,  
1957, pp 1090-1093.

Consultants Bureau

Sci - Chem

Jun 58

65, 706

BALANDIN, A.A.

Influence of the nature of asbestos carrier on the activity of platinum catalysts.  
CR LII, No 2, 46, 139.

Dehydrogenation of unsymmetrical diphenylethane,  
CR LIII, No 2, 46, 127.

On the Reaction of isotropic exchange in the hydrogénéation of benzene with deuterium over platinum and chromium catalysts,  
CR LIII, № 8, 46, 715.

A456

Abstracts of Congress in English

Principles of the Chemistry of Enzymes and Anti-metabolites from the Viewpoint of the Catalysis Theory, by A. A. Balandin, 4 pp.

RUSSIA, per, Dok Ak Nauk SSSR, Vol CIV, No 5, pp 1008-1011.

X 1957  
CIA 59-10365  
Consultants Bureau

Sci - Chem  
Aug 58

69, 105

Kinetics of the Dehydrogenation of Isopropyl  
and Ethyl Alcohols over Manganese Oxide, by  
A. A. Tolstopyatova, A. A. Balandin, E. M.  
Dmitriev, 12 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim  
Nauk, No 11, 1956, pp 1404-4

Consultants Bureau

Sci - Chem

Jun 58

65, 479

Selective Action of Catalystic Prepared From  
Ni Nickelous Oxide Treated With Stream Under  
Pressure, by L. Kh. Freidlin, A. A. Balandin,  
N. V. Borunova, 4 pp.

RUSSIAN, bimo par, Iz Ak Nauk SSSR, Otdel Khim  
Nauk, No 1, Jan/Feb 1956, 128-129.  
CIA 542767 C, reel 3.

Consultants Bureau

Sci - Chemistry

37,582

Aug 1956

Mechanism of the Deactivation of Nickel Catalysts  
by Steam Under Pressure, by L. Kh. Freidlin,  
A. A. Belandin, N. V. Borunova, A. N. Agronomov,  
6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel. Khim Nauk,  
No 8, Aug 1956, pp 913-922.

Consultants Bureau

Sci - Chemistry  
Jul 57

469, 403

Catalytic Demethylation of  $\alpha$ -picoline to Pyridine  
Under the Action of Water Vapor, by A. A. Balandin,  
L. I. Sovalova, T. A. Slovokhotova, 5 pp.

*thru*  
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX, No 1, 1956,  
pp 79-82.

Sci - Chemistry  
Oct 57

Assoc Tech Sv 73H13R  
AT&T RJ-699  
54,140

Catalytic Hydrogenation of Triptycene Derivatives, by  
A. A. Balandin, E. I. Klabunovsky, 6 pp.

RUSSLAN, twice-mo per, Dok Ak Nauk SSSR, Vol CX,  
No 4, Sep/Oct 1956, pp 571-574.

Consultants Bureau

Sci - Chem

56, 665

Dec 57

Catalytic Alkylation of n-Hexane With Propylene  
and n-Butane With Butylene at High Temperatures  
and Pressures, by A. L. Kh. Freidlin, A. A.  
Balefdin, N. M. Mazarova, 4 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CDK,  
No 1, pp 105-108. Jul/Aug 1956

Consultants Bureau

Sci - Chem

56,617

Dec 57

The Sequence of the Hydrogenation, Cyclization and  
Hydrogenolysis Reactions of Furan Derivatives on  
Nickel Catalysts, by A. A. Balandin, A. A. Pono-  
marev, 16 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XXVI, No 4,  
Apr 1956, pp 1146-1159.

Consultants Bureau

43,672

Sci - Chemistry  
Feb 1957 CMS/dex

Chemical Dihydrogenation of Isopentane-Isopentene  
Mixtures, by O. K. Bogdanova, A. P. Shcheglova,  
A. A. Andoniu, 6 pp.  
BUDAL'Y, per, in Minsk SSSR, Otdel Khim Knuk,  
No 2, 1959, pp 350-353.

Consultants Bureau

Ref. - Chem  
1957-60

113, 229

Orientation of Absorbed Molecules in a Uni-molecular Layer on Oxide Catalysts, by V. D. Vasserman, A. A. Balandin, M. P. Maksimova,  
4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 2, 1959, pp 363-364.

Consultants Bureau

Sci - Chem

113,420

Apr 60

Catalytic Hydrogenation of the 2,2-Diphenyl-1-picrylhydrazyl Free Radical in Presence of a Rhodium Catalyst, by A. A. Balandin, M. L. Khidekel', V. V. Patrikeyev, 3 pp.

RUSSIAN, per, Iz Akad Nauk SSSR, Otdel Khim Nauk,  
No 2, 1959, pp 361-362.

Consultants Bureau

Sci - Chem

113,418

Apr 60

Free Energy in the Adsorptional Displacement of  
Butene by Water From a Catalyst Surface, by A. A.  
Balandin, O. K. Bogdanova, A. P. Shcheglova, 10 pp.

Full translation.

4

RUSSIAN, bimo per, Iz Ak Nauk, Otdel Khim Nauk, No 8,  
Jul/Aug 1955, pp 723-733. CIA C 41476

Consultants Bureau

32,624

Scientific - Chemistry  
Mar 56 CTS/dex

5/4

Differential Thermocouple Method in Heterogeneous  
Catalysis, by A. A. Balandin, V. V. Patrikeyev,  
10 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIV, No 1/3  
May 1944, pp 57-69.

Sci Tr Center  
RT -2656

28/488

Scientific - Chemistry  
Dec 55 CTS/DEX

Preparation of Hexamethylenediamine by the  
Continuous Hydrogenation of Adiponitrile on a  
Nickel Catalyst, by L. K. Freidlin, A. A. Balandin,  
K. G. Rudneva, T. A. Sladkova, 15 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
pp 166-173, 1957.

SIA R-1619

Sci - Chem  
Aug 58

70,523

The Thermal Ionization of Hydrogen and Hydrocarbons  
in the Presence of Metal Catalysts, by F. G.  
Ivanov, A. A. Balandin, 5 pp.

RUDNIAK, per, Izv Ak Nauk SSSR, Vol 1958, No 4,  
1958, pp 727-730.

Assoc Tech Sr  
71026R

Sci - Chem  
Apr 59  
OEB, V. I, No 5

86,171

Effect of the Method of Preparation and the Presence  
of a Carrier on the Catalytic Activity of Chronic  
Oxide in Dehydrogenation and Dehydration Reaction;  
by A. A. Tolstopystova, K. A. Balitskaya, A. A.  
Balandin, 10 pp.

RUSSIAN, no per, Izd Akad Nauk SSSR, Otdel Khim Nauk,  
No 10, 1956, pp 1256 1265.

Consultants Bureau

Sci. - Chemistry  
Jan 58

58,000

The Free Energy, Heat and Entropy of the Adsorptioal  
Displacement of Alcohols by Water from the Surface of  
an Oxide Catalyst, by A. A. Balandin, O. K. Bogdanova,  
A. P. Shcheglova, 4 pp.

2

RUSSIAN, PER, Dok Ak Nauk SSSR, Vol CXVIII, No 2,  
1958, pp 312-314.

Consultants Bureau

Sci - Chem  
Dec 58

77,453

The Catalytic Activity of Tungsten Pentoxide,  
by A. A. Balandin, A. A. Tolstopyatova, V.  
Stshizhevskiy, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXIV,  
No 3, 625-628, 1960.

CB

Sci

May 61

153,000

The Effects of Specific Gaseous Treatment on  
the Catalytic and Magnetic Properties of  
Chromic Oxide, by A. A. Balandin, I. D.  
Rozhdestvenskaya, A. A. Slinkin, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, N.  
Vol CXXXIV, No 1, 1960, pp 110-113.

CB

Sci

152, 979

May 61

The Combined Dehydration of Alcohols in an  
Adsorbed Layer on Aluminum Oxide Catalysts:  
by V. E. Vasserberg, A. A. Balandin, T. V.  
Serganova, 6 pp.

RUSSIAN, ser. Dok Ak Nauk SSSR, Vol CXXXIV,  
No 2, 1960, pp 371-375.

CB

Sci

152,989

May 61

Isopropanol Dehydration and Tetraline De-hydrogenation Kinetics Upon Neodymium Oxide, by A. A. Tolstopystova,  
A. A. Balandin.  
RUSSIAN, per, Izv AN SSSR, Ser Khim, No 1,  
1964, pp 3-8.  
STC 69-12502-97D

93

A. A. Balandin

Sci-Chem  
Aug 62

389,387

Balandin, A. A. and Liberman, A. L.  
KINETICS OF DEHYDROGENATION OF SECONDARY  
BUTYL ALCOHOL AND REVERSIBLE POISONING  
OF COPPER CATALYSTS. [1961] 1p.  
Order from OTS or SLA \$1.10 61-20387

Abstract trans. of [Akademiya Nauk SSSR]. Comptes  
Rendus (Doklady) de l'Academie des Sciences de l'  
U. R. S. S. 1940, v. 28, no. 9, p. 794-799.

DESCRIPTORS: \*Butanols, Dehydrogenation, \*Copper  
catalysts, Catalysts, Poisoning.

(Chemistry--Physical, TT, v. 6, no. 12)

61-20387

I. Balandin, A. A.  
II. Liberman, A. L.

Office of Technical Services

Investigation on Catalytic Conversion  
of Isopropanol and of Cyclic Hydrocarbons  
on Titanium Dioxide (Anatase) by Means of 47  
a Differential Thermocouple, by A. A. 48  
Balandin, N. A. Tolstopyatova, I. G. Kosenko.  
BSSRAN, ser. Akad Nauk SSSR. Izvestiya.  
Sotsial'naya Kibernetika Nauk, No 12,  
1966, pp. 2076-2107.

WTC 19-11643-97C

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Sci-Chem

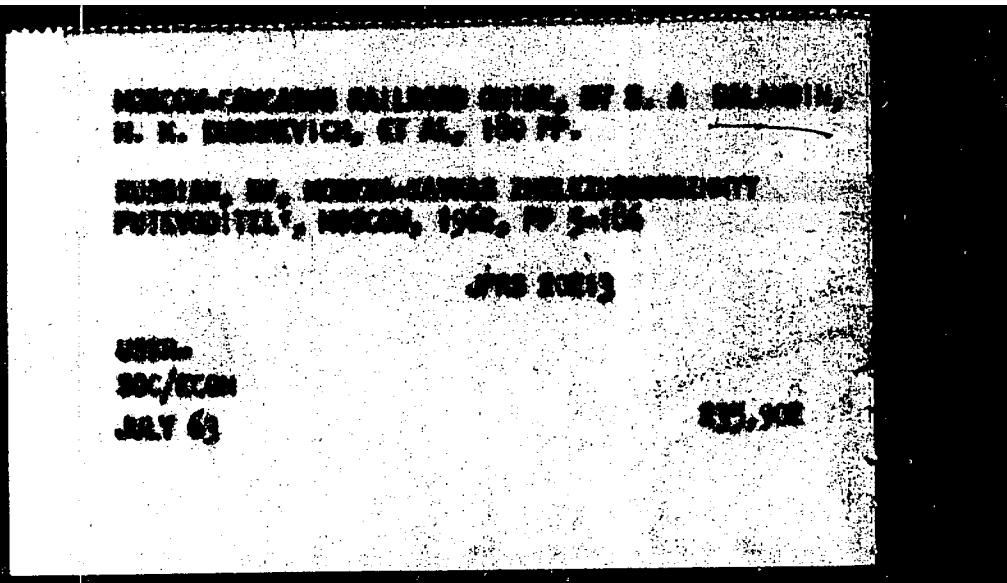
384,624  
rec 478

167  
Anal- over balance learning for metal plant, by  
G. I. Andronov, A. S. Galandin, 5 pp.  
AK 144, per., Prosvetpressa, Moscow,  
to 4, 1969, pp 40-44.  
J 21 49275

A. S. GALANDIN

Anal- rep and uols  
July 67

337.902



Balandin, C. F.

CRYSTALLIZATION OF CASTINGS UNDER THE ACTION OF SONIC AND ULTRASONIC VIBRATIONS IN THE LIQUID METAL. Jan/Feb 61, 4400 words. Order from HB \$9.80

HB-4898

Trans. of Izvestiya V[ysashikh] U[chebnykh] Z[avedeniy]. Mashinostr[ojeniye] (USSR) 1960, no. 4, p. 24-31.

(Machinery--Manufacturing, TT, v. 5, no. 8)

61-12827

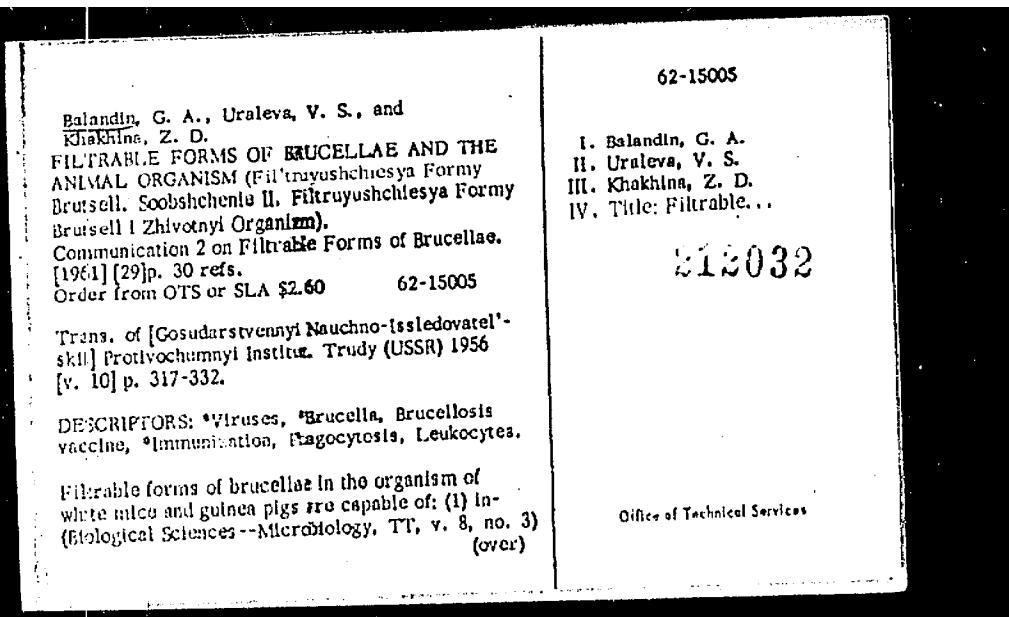
1. Castings--Production
  2. Metals--Crystallization
  3. Liquid metals--  
Ultrasonic factors
- I. Balandin, C. F.
  - II. HB-4898
  - III. Brutcher, Henry,  
Altadena, Calif.

Office of Technical Services

Casting Under Controlled Rapid Cooling (Application of the Slush Principles to Industrial Quality Production), by D. F. Salandin,  
RUSSIAN, bk., 1962, 263 pp.  
IBG 1962 No 2079

Jan 67

316,750



An Early Diagnosis of Brucellosis in Agricultural  
Animals in the Basis of a Successful Control of  
That Infection in Animals and Men, by G. A. Balandin,  
A. D. Trishina.

RUSSIAN, bk. Brutsal'ye Sel'skokhoz Zhivotnykh,  
~~1955~~ 1955, pp 114-119. CIA 9006752

UDDA 40, 366

Sci - Medicine  
Nov 1956 CIS/dex

